

FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON, ALBERTA

1 JUNE 1978

ED-MON-TON 1978: ANNUAL MEETING OF THE CANADIAN INSTITUTE OF FOOD SCIENCE AND TECHNOLOGY

The following has been received from P. Jelen, Department of Food Science. Dr. Jelen is the 1978 CIFST Conference Chairman.

Introduction

With the twenty-first Annual Conference to be held in the Edmonton Plaza Hotel from 25 to 28 June 1978, the Canadian Institute of Food Science and Technology will enter its third decade of official annual meetings. This article will review briefly the activities of the CIFST on the national, as well as Alberta levels, and will provide some insight into the program of the ED-MON-TON 1978 Conference.

CIFST History

The only Canadian professional association of food scientists and technologists today, the Canadian Institute of Food Science and Technology (CIFST) has over 2,000 members representing all the diverse areas related to food production, processing, marketing, regulating, teaching, and research.

The center of activity for the Alberta section is Edmonton, where most section meetings are held, and where the majority of the current section members reside.

At the present time the total section membership stands at 175, including student members from the University of Alberta.

The section strongly encourages the participation of students in CIFST. A Scholastic Achievement Award is given each year to the best graduating University of Alberta student from any one of the three food-related programs of study: BSc (Food Science), BSc (Agriculture)—option Foods, or BSc (Home Economics)—option Foods and Nutrition. The section representatives are actively involved in the Canadian Food Industry Scholarship program. Each year, one of the section meetings is organized by the students.

ED-MON-TON 1978

The theme of the twenty-first Conference is EDucation-inforMatiON-CommunicaTiON 1978. Within this framework, prominent speakers from both CIFST and its American counterpart, the Institute of Food Technology, (IFT), will discuss the most recent



C.J. Simpson

On Friday, 19 May, the new offices for the University of Alberta Senate were officially opened in 150 Athabasca Hall. Seen here in conversation at the opening are the current Chancellor, R.N. Dalby, and the Chancellor designate, Jean Forest. Although the first meeting of the University's Senate was held on 30 March 1908, the offices located in Athabasca Hall are the first permanent offices to be allocated to the Senate. In recent years the role of the Senate has been enhanced considerably by its efforts in addressing matters of great topical interest.

information and research findings related to food consumers.

Focus on Communication

The Conference program includes sessions aimed at bridging the gap between the food scientist and the consumer. There will be one evening session of questions and answers open not only to all Conference participants, but also to the local media and the public. Another symposium will review the various

means of communication available in Canada for food-related public education in the broadest sense. The joint IFT-CIFST Public Information Program, in existence now for almost three years, will undoubtedly receive wide attention.

Technical symposia are scheduled for each of the six half-days of the Conference. The topics cover the controversial areas of food "chemicals", additives, and new ingredients;

fishing and fish processing in Canada; international food marketing issues; and several food engineering and food processing topics. Technical sessions and round table discussions will provide opportunities to discuss research in food microbiology, dairy technology, meat processing, food quality and acceptance, nutrition, protein chemistry, whey utilization, and many other aspects of the food field. Invited speakers include several prominent food scientists from the United States, Germany, and New Zealand, as well as some of the most experienced CIFST'ers and Canadian Government specialists. "Innovation Canada," a non-profit organization devoted to promotion of innovative industrial ideas, will organize a symposium on "How to expand our manufacturing base." This symposium will also be open to the interested public.

Industrial Exhibits

Many Canadian firms are looking forward to the opportunity of making new contacts in Edmonton. The exhibits area in the Edmonton Plaza Hotel is limited, but some space is still available for any "latecomers."

Social Functions and Student Participation

National CIFST Conferences are popular for the happy blend of technical sessions and social activities. This year will be no exception. In addition to the traditional opening mixer and the Province of Alberta luncheon, the participants will be treated to the characteristic Klondike Breakfast, an outdoor barbecue at Fort Edmonton, and a closing President's Banquet in true western style with square dancing, play-money casino, regular dancing, and a lot of good fellowship. The National Council members

(about thirty people who will be meeting prior to the Conference on 24 June) will be invited to spend the evening of 23 June at homes of participating Alberta members.

The student members will be the hosts of a traditional Student Awards Luncheon on 28 June, to honor the winners of the undergraduate and graduate paper competitions. Cheaper accommodation for students will be available at one of the University of Alberta housing facilities.

Conclusion

The twenty-first CIFST Conference promises to be one of the most informative and enjoyable ever. We are looking forward to welcoming all food professionals from Alberta among our attendants.

If you are interested in attending the Canadian Institute of Food Science and Technology Conference or in participating in the "Western Hospitality Program" as a host for one of the CIFST councillors, please contact the Conference Chairman, Dr. P. Jelen, Department of Food Science, University of Alberta, telephone 432-2480.

CYRIL KAY AND PAUL KEBARLE ELECTED TO ROYAL SOCIETY

Two University of Alberta professors, Cyril Kay of the Department of Biochemistry and Paul Kebarle of the Chemistry Department, have been elected to Fellowship in the Royal Society of Canada. The next induction ceremony, presided over by University of Alberta geology professor R.E. Folinsbee, President of the Royal Society, will be held at the annual meeting in London, Ontario on 4 June.

Dr. Folinsbee, whose presidency terminates this week, describes the Royal Society: "It's a way to feel the pulse of the whole country in a very broad academical relationship." The Royal Society, which was established in 1882 "to promote learning and research in the arts and sciences," endeavors to recognize high distinction and to stimulate achievement in all areas of academic pursuit by elections to fellowship and by the awarding of medals, prizes, and scholarships.

As an advisory council to the federal government, the Royal Society is often contracted to research and to offer opinions on a variety of subjects that affect the intellectual life of the country. Besides working for the promotion of such institutions as the National Library, the National Museum, and the National Gallery of Canada, one of the projects currently occupying many members of the Royal Society is an investigation on "Scientific Publications in Canada."

One of the traditional activities of the

Royal Society is its annual meeting. At the symposium each year, Fellows and invited guests present and discuss papers pertaining to a topic of broad interest which invites the participation of all three sections of the Royal Society: l'Académie des Lettres et des Sciences Humaines, the Academy of Humanities and Social Science, and the Academy of Science/l'Académie des Sciences. The annual symposia are concerned with subject of general national relevance and urgency. The 1977 Symposium of the Royal Society of Canada was entitled "Shifts in the Balance of Canada's Resources," and considered the rôle of Western Canada as a chief supplier of energy. The theme of the symposium on 4 June 1978 will be "National Unity," a topic which highlights both the interdisciplinary efforts of the Royal Society and its bicultural approach.

Besides the annual symposia, regional and specialized meetings are held periodically throughout the year. An experimental program of meetings which involves the interested public on the topic of "Nuclear Awareness" will be conducted across the country by the Committee on Nuclear Issues in the Community. This series of meetings is sponsored jointly by the Royal Society of Canada and the Science Council of Canada.

At one of the regional meetings of the Society in Edmonton this month, A.E. Hohol, Minister of Advanced Education and Manpower for the provincial government, awarded the Royal Society of Canada with \$3,000, the first of a number of grants in general support of the various activities of the Society, which include the symposia, the publications program, and committee projects.

The election of Dr. Kay and Dr. Kebarle brings the membership of staff and retired professors from the University of Alberta in the Royal Society to twenty-seven. There are over nine hundred members in the Royal Society of Canada.

Dr. Kay, who is involved in the study of the properties of contractile proteins of skeletal and cardiac tissues, will receive his fellowship diploma from the Royal Society of Canada at the annual meeting on 4 June in London, Ontario. Dr. Kebarle, who describes his research as "essentially a comparison of the behavior of ions in gases with the behavior of ions in solution," will be inducted at the 1979 symposium in Saskatoon.

J.F. ELLIOTT NAMED DISTINGUISHED CLINICAL PROFESSOR

On 12 May during the Department of Medicine's Medical Grand Rounds, D.F. Cameron, Dean of the Faculty of

FOLIO

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BOARD OF GOVERNORS



*John L. Schlosser,
Chairman Designate*

John Schlosser was born in Saskatchewan, and is a graduate of the Universities of Alberta and North Dakota. Since 1946 Mr. Schlosser has been a resident of Alberta and, as a man of diverse interests and leisure activities, has played an active part in promoting the cultural and community life of this city and province. Mr. Schlosser is a past President of the Edmonton Symphony Society and has served as President of the United Community Fund of Edmonton, the Edmonton Art Gallery, and of the municipal and provincial districts of the Boy Scouts

of Canada. Mr. Schlosser's commercial interests are equally varied. He is President of Tri-Jay Investments Ltd., Vice-President Nu-Alta Developments Ltd., Vice-President and Secretary to Princeton Developments Ltd., and former Vice-President of Northland Utilities Limited. In addition to these positions, Mr. Schlosser also serves on the boards of several other financial and community-related institutions.

Appointed to the Board of Governors from the public in November, 1972, Mr. Schlosser has consistently taken a keen interest in the affairs of this University. For him, as for his colleagues, the primary rôle of the Board of Governors lies in its exercise of financial control over the institution it serves and to oversee, as it were, matters that have a direct bearing on the fiscal health of the University. What the University is able to do now and what it might wish to do in the future must be considered in light of the financial resources available; should these be drawn from the coffers of the provincial government, private endowments, or from the pockets of the students themselves. The students, he believes, would benefit from a rational approach to fees. Mr. Schlosser suggests that fees should be based on a formulaic structure tied to a fixed percentage of the University budget.

Mr. Schlosser, a past Chairman of the Finance Committee and Chairman designate of the Board is indeed a strong advocate of

rationalism in the overall development and expansion of post-secondary educational opportunities in this province. For example, he is able to envisage a more widespread use of regional colleges at which, perhaps, the first and second years of general university-level training could be made available. This, Mr. Schlosser suggests, could lead to a more equitable and economical distribution of resources.

Mr. Schlosser, however, is not solely concerned with financial matters; although such matters are of considerable importance. He is himself a member of a hardworking and dedicated group of, for the most part, lay people who uphold the traditional aims of this University; namely teaching and research. Industry and academe, he believes, should cooperate closely in advancing the well-being of the human state. "One of our greatest renewable resources," Mr. Schlosser argues, "is educated people."

Over his years as a member of the Board of Governors, Mr. Schlosser has been impressed with the high level of teaching and research at the University of Alberta: "I think that we have the opportunity of being the finest university in Canada and probably one of the finest universities in the North American continent."

Mr. Schlosser will take up his responsibilities as Chairman of the Board of Governors on 1 July, after the retirement of the present incumbent, E.A. Geddes.

Medicine, awarded a diploma to James Francis Elliott naming him a Distinguished Clinical Professor. The Department of Medicine proposed this title to be awarded to Dr. Elliott in recognition of his more than three decades of meritorious teaching and his exemplary care of patients. Dr. Elliott is the first recipient of this title, and at any one time only one individual will be honored with the Award.

Dr. Elliott graduated from the University with the class of 1936. After a year of internship and a year of Pathology, he began a Fellowship at the Mayo Clinic and Foundation in Rochester, Minnesota. In 1947, following his military service, he returned to the University of Alberta. He was the Director of the Student Health Services from 1947 to 1967, and he achieved the rank of Clinical Professor in 1957. The Medical Alumni Association awarded him their Distinguished Service Award in 1971.

PRESIDENT'S ADDRESS

The following address was presented by University President H.E. Gunning at Spring Convocation, which was held from 29 to 31 May.

Eminent Chancellor:

It was little over a year ago that The Senate began its valuable inquiry into public conceptions of what the goals of the University should be. It became clear in the meetings devoted to this important subject that there was a very wide range of expectations with respect to the University's responsibilities to our society.

The University represents in its programs and in its activities the vast spectrum of intellectual endeavor of the collective human mind. It is understandable that no one individual is capable of fully appreciating all of its roles in our society. What is clear, however, is that if we add up all of the expectations that Albertans have with respect to The University of Alberta, the summation is not significantly different than the functions which the University is now performing.

What makes life so exciting now in the Province of Alberta is that we seem to be a people chosen with the prospect of a special destiny. To achieve this special destiny we will need all of our abilities, and the total participation from our universities in refining them.

As President of this great University I can say with pride and conviction that the University of Alberta is responding magnificently to the special needs of our rapidly diversifying Alberta society.

As a province we have set for ourselves many exciting objectives, which if realized, could take us to the very forefront of the most progressive societies. Thus, we are seeking to upgrade our natural resources to the point where we are not merely exporters of raw materials but rather creators of highly refined products by very sophisticated technologies and utilizing the skills of many types of highly trained Albertans. An example of this enterprise would be the recent incorporation by the University of Alberta of a company dedicated to the development of totally new pharmaceutical materials. This company will be dedicated to the development and

production of products to improve the health of our society. Such an ethical drug industry will obviously be a vital part of the full exploitation of our rapidly growing activities in the field of medical research. An inevitable outgrowth of medical research programs is the development of new health care products and new disease treatment packages, that should be produced in Alberta and marketed from our province if Albertans are to reap the full benefits of such advanced technology.

In the past, our province has reluctantly accepted the role of a producer of raw materials for refinement by others. With the invigorating prospect now for Alberta of a new destiny involving the creation of a society wherein each person may realize his or her full potential, inordinately high demands are placed on the resources of our universities. The scientists required for the development of a new pharmaceutical industry in this province can only be found within our academic staff and this statement is of a general applicability when we search for experts to carry out many of the specialized functions which are needed to diversify our society. In short, our University in cooperation with our excellent sister institution in Calgary is increasingly taking on the role of provider of the innovative resources for the new Alberta.

This is as it should be, and we at the University accept these new responsibilities with great enthusiasm. In truth, all that we ask is that the public be fully cognizant of the strain that these new responsibilities put upon our limited resources, and treat our requests for adequate funding with full understanding.

There is no time in the history of our province when it has been more important that the public thoroughly understand the role of universities in the development of the type of society which Albertans want.

The realization of that society depends on the development of our intellectual resources, in short, our full human resources, and here universities are absolutely indispensable.

Just as biologists have shown that every living creature is part of an elaborate food chain, and dependent therefore for its existence upon the maintenance of the integrity of that chain, so too new ideas of social significance are the end product of a long connected series of creative insights.

As a consultant for over thirty years to the chemical and petroleum industries, I have seen how the research ideas developed in universities are the starting points for new, more applied conceptions that ultimately become cloaked in proprietary secrecy. Without the steady stream of new ideas and new knowledge emerging from our

universities, much of what we consider to be progress would come rapidly to a halt. What I have said is generally true, but it is particularly important when applied to the relationship between the growth of our provincial society and the role of the universities in that process.

To achieve our full destiny as a province, we require universities in this province of world stature to which the very finest academic minds will be attracted, because this is the most effective method of concentrating the experts that we will require for the full diversification of our society.

As I have stated on many occasions, our provincial government and the public it represents have a right and a duty to expect that this University manage the funds made available to it in the most responsible fashion possible. In this respect, I find it heartening indeed to find that the lay members of our Board, when they become fully aware of how our University is managed, are consistently impressed with the responsible manner in which we handle our limited resources.

The analysis of the allocation of funds within any University will show that the great majority of our revenues are spent in compensating people. This is because we are a people-centred organization. We do not produce things; we help individuals to explore the full reaches of their minds. We teach, we do research, and we perform public service. All of these activities involve individuals working with individuals. Where new technology, such as computers, will reduce our costs by eliminating routine human roles, we use them to the full. However, the vast majority of our activities can only be carried out by highly creative individuals, just as we cannot replace by machines the skills of a great surgeon in the operating room.

This University's financial problems arise from the fact that research-oriented institutions such as ours have been victims of special inflationary forces which are greater than those for society in general. Of the many items of equipment for teaching and research, Canada produces woefully little. We must purchase highly specialized items on world markets with a Canadian dollar which has shown in recent times a rapid decline in purchasing power. Our libraries are especially hard hit, since they are obliged to purchase books and periodicals in a market showing an inflation rate in the fifteen to seventeen percent range using a Canadian dollar worth ninety cents.

Scientific equipment required for our teaching and research programs has shown inflation rates in the order of at least double that indicated by the consumer price index.

As President Kenny pointed out in a recent address, the items of equipment to stock

an undergraduate locker in chemistry have increased in price by 123 percent in the past three years. It can be seen how painfully irrelevant the consumer price index is in determining the rate of expansion of costs for a university such as ours.

This University is serving the needs of our new Alberta in an enormously large number of ways. We want to do more, and we want to do what we are doing even more effectively. We ask that you appreciate our special and unique problems and help us to make this institution into the great forefront centre of teaching and research required by our province.

Before concluding my address to Convocation, I would like to pay tribute to two distinguished Albertans who are just completing their terms of office with our University. To Mr. Eric Geddes, the retiring Chairman of our Board of Governors, I would like to voice the deep gratitude of this institution for his many contributions to the improvement of the University of Alberta first in his role as a member of the Board of Governors, and in the past three years as Chairman of that Board. Eric Geddes has fought tirelessly for the support of everything that is good about our University. He has represented in a most effective way the needs of the University to our Government. In everything that I have attempted to do to improve the quality of our institution, I have always had the full support of the Chairman of our Board. I am convinced that the strength of the University of Alberta depends to a major extent on the contributions which lay leaders of our society such as Mr. Geddes have made to our institution.

Finally, Eminent Chancellor, I would like to pay public tribute to your distinguished self. Under your able Chairmanship, the Senate of this University has achieved a new sense of purpose, dedication, and cohesiveness. During the four years in which you have held the position of Chancellor of this University, we have seen a steady stream of outstanding studies embodying the needs of society which can be met by the University.

In my view you are a natural leader, who leads without in any way taking away from those who work with you. You have not only made major contributions to the increased effectiveness of our Senate, but in addition you have been a key member of our Board of Governors. And finally, at Convocations such as these, and in many other situations in which you and your charming wife have represented this University, we have been very well served indeed.

Eminent Chancellor, when outstanding Albertans such as Eric Geddes and yourself devote themselves, as you both have done,

to the goal of making the University of Alberta a more effective institution in serving the needs of all Albertans, this University can look with confidence to a future of vital importance for all of us.

NOTICES

Notices must reach the Editor by 9 a.m. the Thursday prior to publication. Written notification is necessary

Industrial Research and Development
On 6 June, a Conference on Industrial Research and Development in Alberta will be held at the University. The Conference is being sponsored by the University and the Association of Professional Engineers, Geologists and Geophysicists of Alberta. The purpose of the Conference is to provide a forum for the discussion of the Industrial Research and Development Policy in Alberta to ensure that the implementation of such a policy will combine the contributions of the public and private sectors in the most effective manner.

The Conference is closely related to the widespread view that more high-technology industry should be established in Alberta. As well as representatives from the Government of Alberta and the private sector, speakers will include P.F. Adams, Dean of Engineering, N. Morgenstern, Professor of Civil Engineering, and J. Kates, Chairman of the Science Council of Canada. Further information about the Conference is available from Pat Larham, telephone 432-5038.

Occupational Therapists' Conference
The forty-eighth Annual Conference of the Canadian Association of Occupational Therapists will take place from 5 to 9 June at the Macdonald Hotel. With the theme "Interact: The Family and Occupational Therapy," papers that are of interest to members of many disciplines will be presented. Speakers will include J. Mitchell, Professor of Educational Psychology; S. Abu Laban, Assistant Professor of Sociology; O. Gironella of the Alberta School for the Deaf; C.P. Hellon, Assistant Deputy Minister of Mental Health Services; R. Stein, Professor of Physiology; and L. Yedull, Director of the Department of Neuropsychology and Research at the Alberta Hospital.

Meetings of the Board of the Canadian Association of Occupational Therapists and the Canadian Association of University Teachers of Occupational Therapy are being held prior to the conference and will be hosted by the Department of Occupational Therapy. The City of Edmonton, in honor of

the fiftieth anniversary of the Association has proclaimed 5 to 9 June Occupational Therapy Week. Registration forms and further information about the Conference program are available from the Department of Occupational Therapy, 310 Corbett Hall, telephone 432-5990. Registration on a daily basis is welcome.

Contemporary Religion Program

"All God's Children," a CBC production from Edmonton concerning contemporary religion, will be broadcast nation-wide on 4 June at 10:30 p.m. Earle Waugh of the Department of Religious Studies participates in the program.

THIS WEEK AND NEXT

Listings must reach the Editor by 9 a.m. Thursday one week prior to publication. Written notification is preferred.

1 JUNE, THURSDAY

Grad House

Thursday Night at the Grad House. Open 4:30 p.m. to 10:30 p.m. Refreshments available.

Citadel/National Film Theatre

7:30 p.m. *This Sporting Life* (Great Britain, 1963). Directed by Lindsay Anderson and starring Richard Harris and Rachel Roberts. Zeidler Hall. For ticket information contact the Citadel Box Office, telephone 425-1820.

Cinematheque 16

7:30 p.m. *The Decamerone/Il Decamorone* (Italy, France, Germany, 1970). Directed by Pier Paolo Pasolini and starring Franco Citti and Ninetto Davoli. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

2 JUNE, FRIDAY

Lunchtime Concert

12:10 p.m. Folk music with Brian MacDonald and Don Melin. Zeidler Hall. Admission is \$2. Tickets available at the Citadel Box Office, telephone 425-1820.

Grad House

Friday Night at Grad House. Open 3:30 to 8:30 p.m. Refreshments available.

Faculty Club

Downstairs. Friday buffet: prime rib of beef, baked ham, potato, fresh vegetable, salad bar, dessert table, \$5.50.

Upstairs. Chef's special: lobster bisque, romaine salad, entrecôte Caroline, baked

stuffed potato, fresh vegetable, dessert table, \$7.95. Also lobster thermidor, \$15, and regular dinner menu. Reservations required.

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3 JUNE, SATURDAY

Faculty Club

Downstairs. Saturday buffet: sauerbraten, dumplings, red cabbage, salad bar, dessert table, \$5.50.

Upstairs. Chef's special: cream of cucumber soup, broccoli, salad, veal galliano, rice, fresh vegetable, dessert table, \$7.95. Also lobster thermidor, \$15, and regular dinner menu. Reservations required.

4 JUNE, SUNDAY

Cinematheque 16

2 p.m. *Notorious* (United States, 1946). Directed by Alfred Hitchcock and starring Cary Grant and Ingrid Bergman. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

Community Programs Concert

2:30 p.m. Mary Louise Burke, mezzo-soprano, and Elaine Dobek, pianist, in concert. Featuring music by Henry Purcell, Hugo Wolf, and Charles Ives. Centennial Library Theatre. Admission is free.

Bette Davis Film Series

4 p.m. and 7 p.m. *The Petrified Forest* (United States, 1936). Provincial Museum. Admission is free.

6 JUNE, TUESDAY

Leo Green Singers

8 p.m. The Edmonton Columbian Choirs present the Leo Green Singers in Concert. Provincial Museum. Admission is \$3 and \$2 at the door.

7 JUNE, WEDNESDAY

Citadel/National Film Theatre

7:30 p.m. *The Red Tent* (Italy, USSR, 1971).

Directed by M. Kalatozov and starring Peter Finch and Mario Adorf.
9:30 p.m. *Network* (United States, 1976).
Directed by Sidney Lumet and starring Peter Finch and Faye Dunawaye. Zeidler Hall, Citadel Theatre. For ticket information contact the Citadel Box Office, telephone 425-1820.

8 JUNE, THURSDAY

Grad House
Thursday Night at the Grad House. Open 4:30 p.m. to 10:30 p.m. Refreshments available.

Cinematheque 16
7:30 p.m. *Edvard Munch* (Norway, 1976). Directed by Peter Watkins and starring Geir Westby and Gro Fraas. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

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9 JUNE, FRIDAY

Grad House
Friday Night at Grad House. Open 3:30 p.m. to 8:30 p.m. Refreshments available.

Faculty Club
Downstairs. Barbecue your own: salmon steak, or chicken, potato, fresh vegetable, salad bar, dessert, \$5.50.
Upstairs. Chef's special: jellied consommé, tomato salad vinaigrette, seafood brochette, rice, fresh vegetable, dessert table, \$7.95. Also regular dinner menu. Reservations required.

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Citadel Theatre. For ticket information contact the Citadel Box Office, telephone 425-1820.

10 JUNE, SATURDAY

Faculty Club
Downstairs. Saturday buffet: cold meats, salad bar, dessert table, \$5.50.
Upstairs. Chef's special: bouillabaisse, Mexican salad, beef chasseur, potato, fresh vegetable, dessert table, \$7.95. Also regular dinner menu. Reservations required.

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EXHIBITIONS AND PLAYS

University Art Gallery and Museum
From 1 June. An exhibition of Indian and Inuit artifacts and clothing from the Edwards and Lords Collections.

Edmonton Art Gallery
From 3 June. "Certain Traditions," an exhibition of recent British and Canadian art.
Continuing. The Annual Students' Exhibition by members of the Gallery's Art Education Program.
Continuing. "New Works in Clay," an exhibition of ceramics.
Continuing. An exhibition of watercolors by Sheila Girling.

Provincial Museum
Continuing. "Damaged Documents," examples of documents and photographs exhibiting the extent and kinds of damage which can occur to documents.
Continuing. "The Spirit of the Windships," an exhibition on the ships and ship-building of the nineteenth century.
From 3 June. "The Art of the First Australian," aboriginal paintings, sculptures, and artifacts.

Studio Theatre
1, 2, and 3 June. Max Frisch's *The Firebugs*. A Master's Thesis production directed by Jan Selman and designed by David Hewlett. Corbett Hall. Showtime is 8:30 p.m. Tickets may be obtained free of charge at the door or reserved by contacting the Studio Theatre Box Office, telephone 432-2495.

Northern Light Theatre
To 4 June. Christopher Fry's *A Phoenix Too Frequent*. Art Gallery Theatre. For ticket information and show times contact the Northern Light Box Office, telephone 429-3110.

RESEARCH GRANTS

Granting Agencies: Application Deadlines

This list of deadline dates for submissions to granting agencies for research funds, exchange programs, and travel grants is published every month in *Folio*. In order to allow sufficient time for processing, all applications should reach the Research Grants and Contracts Office at least ten days before the deadline date. Where other University resources are involved, the time requirement may be much longer than ten days and such applications should therefore be submitted well in advance. An extra copy of the application should be provided for the Research Grants and Contracts Office.

Further information may be obtained by consulting the *Calendar of Granting Agencies for Research Funds, Exchange Programs, and Travel Grants*, which is available in the offices of Deans, Directors of Institutes and Centres, and Department Chairmen, or by telephoning the Research Grants and Contracts Office, 432-5360. Note: Although the Calendar is updated on a continuous basis, the following information could be subject to change without notice. If staff members have advance information on forthcoming changes, the Research Grants and Contracts Office would appreciate being advised.

Code: (R) Research funds; (E) Exchange programs;

(T) Travel grants.

Calendar

source number	code	granting agency	deadline date
(155)	R	Department of National Health and Welfare—National Health Research and Development Program	31 July
(390)	R	Social Sciences and Humanities Research Council	15 July 15 Oct. 15 Jan.
(420)	R	US Department of Health, Education and Welfare <i>New and Supplemental Renewals</i>	1 July 1 Nov. 1 Mar. 1 Oct. 1 Feb. 1 June

POSITIONS VACANT

POSITIONS IN CANADA

Positions are available in the disciplines and at the institutions listed below. Information concerning the positions is available from the Canada Manpower Centre, Floor 4, Students' Union Building (telephone 432-4291).

Biology—Okanagan College, Kelowna, B.C.
Business Administration—Okanagan College, Kelowna, B.C.

Civil and Construction Technology—Okanagan College, Kelowna, B.C.

Early Childhood Education—Okanagan College, Kelowna, B.C.

Economics—Okanagan College, Kelowna, B.C.

English—Okanagan College, Kelowna, B.C.

Fine Arts—Okanagan College, Kelowna, B.C.

Mathematics—Okanagan College, Kelowna, B.C.

Music—Okanagan College, Kelowna, B.C.

Psychology—Okanagan College, Kelowna, B.C.

Counsellor—Okanagan College, Kelowna, B.C.

Sociology and Anthropology—Carleton University, Ottawa, Ontario

POSITIONS ON CAMPUS

Academic Positions

Executive Secretary

A Secretary to the Executive Director is required immediately. This person will be totally responsible for the coordination and performance of all secretarial duties for the Executive Director and the Board. The Secretary to the Executive Director will be required to take minutes at Board and Provincial Committee meetings. Completion of a level of education equivalent to Alberta grade XII, supplemented by Business Secretarial Courses and at least two years of related experience is an asset. Proficiency in shorthand, typing, and a broad experience in minute taking is essential. Excellent fringe benefits are offered, including four weeks annual vacation. Salary range is from \$12,575 to \$15,720 per annum.

Apply in confidence to:

Director of Personnel
Cross Cancer Institute
11560 University Avenue
Edmonton, Alberta
T5T 1M5

Research Positions

Two research positions are available for recent PhD (Chemistry or Food Chemistry) graduates. The positions are available immediately and will terminate 31 March 1979 (Research and Trust appointment). Applicants must be capable of conducting research directed at solving the problem of off-flavor development in potato granules during extended storage and shipment. Annual salaries are \$10,500 and \$13,500. Qualified persons should submit résumés to the Department of Food Science, 202 South Lab as soon as possible. For additional information, telephone 432-3491.

Non-Academic Positions

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 26 May. Salaries are under review.

Library Clerk II (\$645-\$753, trust)—Legal Resource Centre, Extension
Clerk Typist II (\$645-\$753)—Sociology; Computing Services; Faculty of Agriculture and Forestry; Student Awards Office; Educational Media, Extension
Public Relations Clerk I (\$645-\$780)—Public Relations Clerk Steno II (\$645-\$780, term)—Industrial and Vocational Education
Clerk Steno II (\$645-\$780)—Anatomy; Canadian Institute of Ukrainian Studies; Dentistry Purchasing Clerk (\$671-\$813)—Purchasing Clerk Typist III (\$698-\$845)—Soil Science; Office of the Registrar; Computing Science; Community Dentistry
Senior Clerk (\$698-\$845)—Personnel Services and Staff Relations; Parking Services
Clerk Steno III (\$722-\$878, trust)—Biochemistry Clerk Steno III (\$722-\$878)—Faculté Saint-Jean; Extension; Psychiatry; Economics
Programmable Typewriter Operator II (\$753-\$916)—Personnel Services and Staff Relations; Graphics Division, Technical Services
Secretary (\$813-\$995)—Educational Psychology Computer Assistant (\$645-\$780)—Computing Services (two positions)
Laboratory Assistant II (\$671-\$813)—Provincial Laboratory, Edmonton
Storeman I (\$698-\$845)—Technical Services

Animal Technician I (\$845-\$1,036)—Bioscience Animal Services
Technician I (\$845-\$1,036)—Art and Design
Technician I/Technologist I (\$845-\$1,175, trust)—Medicine
Food Service Worker IV (\$878-\$1,080)—Housing and Food Services
Draftsperson I (\$878-\$1,080)—Physical Plant, Engineering
Computer Operator I (\$878-\$1,080)—Division of Educational Research Services
Maintenance Man II (\$916-\$1,127)—Housing and Food Services
Technologist I (\$954-\$1,175, trust)—Medicine
Laboratory Technologist I (\$954-\$1,175)—Provincial Laboratory, Edmonton
Technician II/III (\$954-\$1,337, trust)—Biomedical Engineering and Applied Sciences
Administrative Assistant (\$1,080-\$1,337)—Computing Services
Maintenance Worker II (\$1,080-\$1,337)—Physical Plant Operating
Technician III (\$1,080-\$1,337)—Biomedical Engineering and Applied Sciences
Electronics Technician III (\$1,127-\$1,395)—Computing Science
Engineering Technologist III (\$1,175-\$1,458)—Physical Plant, Engineering
Nurse Practitioner (\$1,337-\$1,663)—Pediatrics

The following is a list of currently available positions in the University of Alberta Libraries. The bulletin board postings in the Library Personnel Office, 516 Cameron Library, should be consulted for further information about position requirements and availability.

Library Assistant I (\$753-\$916)—Cataloguing (two positions)
Library Assistant II (\$845-\$1,036)—Education

ADVERTISEMENTS

All advertisements must be received by 9 a.m. the Friday prior to publication. Rate is 15 cents per word for the first week and 5 cents per word for subsequent weeks ordered before the next deadline. Minimum charge is \$1. Ads must be paid in advance and are accepted at the discretion of the Editor. We regret that no ads can be taken over the telephone. For order forms or further information, telephone 432-4991.

Accommodations available

For sale by owner—1,756-square-foot home in executive Blue Quill. Fully carpeted, four-bedroom split level home includes 2½ baths, main-floor family room with tyndalstone fireplace and patio doors, bright, airy kitchen, spacious living and dining room, and impressive entrance foyer. This beautiful home also has a double garage and is located on a large landscaped lot. Telephone 436-3617 or 425-0110, extension 205.

For rent—Fully furnished three-bedroom house in north Windsor Park; study, family room, game room, fireplace, garage, large fenced yard. From 15 August 1978 through 15 August 1979. \$600 monthly. 439-3509.

For rent during Summer Session—four-bedroom bungalow (Southgate). Fully furnished. Direct bus to University. \$500 monthly plus damage deposit. 434-3896, p.m.

By owner—Woodcroft. \$77,900. Three-bedroom bungalow, 1,100 square feet; hardwood, new carpeting; exterior recently painted. Double garage, electric door; very private yard, mature trees; finished basement. 452-4433, after four.

For sale—321 acres, or part. Unspoiled nature, conifers, wildlife from moose to mouse. Lake, creek, ponds, rolling landscape. Tall forest, some tame hay; 55 miles west of city; 53 on paved highway. Owner, 432-7145, evenings.

For rent—three-bedroom suite, modern side-by-side duplex, 1½ baths, stove, fridge, near University transit and mall; responsible tenants, (one pet allowed). \$360 monthly. Telephone 465-7206, evenings.

For rent—new three-bedroom house. West end, near hospital, school and bus route; available for immediate occupancy. 484-8322, evenings.

For rent—1 August for one year. Furnished two-bedroom house near University. Well-treed and situated on quiet corner. \$450 monthly. No pets. References. 434-4588, evenings.

Renting—July - August. Furnished condominium; two bedrooms, study, fenced yard, garage. Twenty minutes to campus. 432-6316; 462-0787.

Lease—August 1978 - August 1979. Modern fully furnished executive house. References, damage deposit required. No pets. 435-6686.

For rent—large luxury two-bedroom condominium apartment within walking distance of University. Direct river view. No pets. 1 July possession. 435-6686.

For rent—1 July: two-bedroom furnished townhouse opposite University. Front garage, fenced yard, appliances, washer, dryer. \$500 monthly. Damage deposit. Telephone 436-2666.

Owner selling—1,150-square-foot three-bedroom semi-bungalow. Allendale. Appliances and garage. \$67,000. 432-3584 (days), 434-0190 (evenings).

Renting—Belgravia: four-bedroom house; two-car garage, breezeway, two fireplaces, beautifully furnished, two bathrooms, study, family room, large kitchen, dining room, living room, playroom, five appliances, wine cellar, mature trees, private patio, lawn mower, bicycles. 4½ minutes University; 14 minutes downtown. \$700 monthly. Available one year, September 1978. For appointment telephone 434-9784. No agents.

For rent—Edge of campus: house (except basement suite). Fully furnished, including antiques, orientals, art, and one cat. One bedroom, two studies. Late August to 1 January. \$450 monthly includes utilities and yard care. 433-0459. References required.

For sale—Aspen Gardens; at \$4,000 below appraisal value so buyer can complete kitchen renovation to own tastes; three-bedroom bungalow, developed basement, large double garage, mature trees. By owner. 432-6302 (days); 434-5607 (evenings).

For sale or lease—Belgravia: beautiful family home; short walk to University. 1 June. 436-4953.

Summer Session rental—four-bedroom house, fully equipped. \$600 for the session. 435-4541.

For sale—view property on Laurier Drive; twelve minutes from campus; five spacious bedrooms, hardwood floors, large treed lot, attached double garage. Spotless condition. Reina Proudfoot, Royal Trust, 435-4869; 436-2556.

For rent—four-bedroom house, furnished, large backyard, fenced. Available for June, July, August. Telephone 487-3753.

For rent—1 June. University area, 72 Avenue - 112 Street. Three-four bedrooms, fridge, stove. \$575 monthly. References. Prefer family or mature adults. 439-3725, evenings.

For sale by owner—must sell: townhouse, St. Albert, 1,233 square feet, three bedrooms, three baths, garage. Telephone 987-2232.

For sale—two-bedroom, furnished, winterized cottage on lake-front lot at Sandy Beach. Has power, gas, and telephone. For further information telephone Wilma at 432-8519, days.

For sale—Riverbend split-level; feature: brick-wall open fireplace in sunken family room; huge master bedroom with three-piece bath, walk-in closet, large kitchen with bay window eating area; double garage. Telephone Denise Rout, 432-7398 or Liz Crockford, 434-0555, or (business) 436-5250. Spencer Real Estate.

For sale—professionally renovated and beautifully decorated spacious three-bedroom older home in University district. Features include: open fireplace, modern kitchen, dishwasher, den with patio doors to large deck. Garage, carpet, fenced yard. \$82,500. Telephone 451-2437.

For rent—furnished one-bedroom apartment.

Mid-June - mid-August. Near University. \$185. 432-2177; 433-2938.

For sale—1,800-square-foot two-storey in Laurier Heights. Four bedrooms, double garage. 483-6939.

For rent—from September 1978 - September 1979. St. Albert; 1,540-square-foot bungalow, three bedrooms, family room, main floor laundry, fireplace; double car garage with electric opener. Treed, fenced yard. Five appliances. \$600 monthly; damage deposit, references. 458-0015.

For rent—three-bedroom semi-bungalow near University; partly furnished. For two years from 1 July. \$560. Professional couple preferred. 433-9004.

For rent—1 July: one-bedroom apartment, beautifully furnished, carpeted; paved parking. Faculty members. \$305. Caretaker, Apartment 16, 10839 University Avenue.

Renting—3 July - 16 August 1978. Furnished three-bedroom house; Laurier Heights. Direct twelve-minute bus to University and downtown. \$650 for the period; damage deposit, references. 432-2544; 484-4533.

For rent—Country home, forty minutes from University; 22 acres, 1,075 square feet, fireplace (free firewood), carpeted, private telephone, double garage and automatic door opener; large deck overlooking ravine; school bus one block away; children and pets welcome. \$500 monthly; \$450 damage deposit. One-year lease and references. Available immediately. June Donaldson, 426-5002 (days); 1-789-3800, evenings.

For rent—new three-bedroom house; twenty minutes to University. \$650 for summer session. Also available for 1978 - 1979 winter session. \$450 monthly. Telephone 474-5952 evenings, or write: 4104 122 Avenue, Edmonton.

Wanted—one person to share large Saskatchewan Drive house. Robb, 469-2321, local 389.

House rental—beautiful three-bedroom townhouse condominium, very handy to University. \$400. Telephone 429-5065.

For rent—centrally heated four-bedroom house, garden. North Oxford, 1½ miles from Bodeleian, close to bus, shopping, schools, bank, pool. F. Floyd, 3 Charlbury Road, Oxford.

For sale—Parkallen semi-bungalow in quiet area; 1,200 square feet, three bedrooms, 1½ baths; developed basement with fourth bedroom, Single garage with carport. No agents please. 434-3038. Wooded vacation lot near Shuswap Lake. \$14,500. Paved road; utilities available. 437-0118.

Accommodation wanted

Visiting researchers require three-four-bedroom house or apartment, completely furnished, for 1 August. Please telephone Pat Burns at 435-6798 after six.

Automobiles and accessories

Quality tune-ups, repairs, emergency service. Used cars. Miketon's Automotive. 453-1712; 489-7041. Mercedes 300D. 1975, 22,000 miles loaded. 433-3504. 1978 VW Rabbit, diesel, custom two-door, 3500 km, green, new value, undamaged. 432-3414; 963-3238.

1973 Toyota Corolla two-door, 1600 engine, four speed, new summer and winter tires, new paint. Very good condition. 469-0583.

1972 Ford station wagon, immaculate, 65,000 miles, roof rack, automatic, radio. Must be seen; owner anxious. Offers to \$2,400. 1972 Toyota MKII automatic, radio, approximately 4,000 miles on rebuilt engine. Offers to \$1,100. Art, 432-3263; 483-7138.

1972 Chevrolet Impala, 56,000 miles, fully equipped, excellent condition. 439-5336.

Goods and services

Imagine owning some Medieval imagery. Selling elegantly framed brass rubbings from England. Shown by appointment. 434-9784.

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Seabri Sailboats—Seaspray (15-foot catamaran) and Kolibri (12-foot monohull). 11408 58 Avenue. 434-3309.

Student Lawn Care—power raking, lawn mowing, low prices. Eric, 475-3026; Dave, 428-7084.

Private lessons—piano, bass, guitar. Telephone 436-0176 after five.

Why pay \$400 for an English nanny service? We have outstanding résumés of English girls wanting to work in Edmonton. Your cost only \$25. Telephone 434-9784 for information.

British Blue shorthair pedigree kittens. 436-4780. Exterior painting. Highly experienced, excellent references. Telephone 435-7157.

Expert typing—theses, etc. 455-0641 evenings.

Sofa bed, matching chair, Canadiana dining table and chairs, large bookcase, end tables, chocolate corduroy sofa and chair, large humidifier, TV stand, lamps, queen box spring and mattress. Leica R3, Betamax video, Sony 17-inch TV (remote). Low prices—leaving. 433-3504.

Antiques from England. Furniture—all periods: tables, chairs, sideboards, cabinets, stools. Porcelain: Derby, Dalton, Wedgwood, Dresden, Oriental, Art Nouveau, art deco, commemoratives, cloisonné, dolls, clocks, jewellery, gifts, collectables. We also buy these items. Mary Goulden Antiques. From 137 Avenue and 50 Street, drive five miles northeast, then 1½ miles east to Horsehill Hall. 1 - 8 p.m., Thursday, Friday, Saturday, Sunday. 973-3656 or 475-8139.

T and T Concrete—specializing in driveways, patios, and sidewalks. 475-1670.

Master Painters—five years experience. No job too large or small. Specializing in prompt service. 434-4833.

Beautiful star pine, height: 4 feet, diameter: 4½ feet. Still growing; too large for our home. \$100 includes jardiniere. J.D. Bristow, 5420 111A Street. 434-6777.

Leaving Edmonton? Need space for furniture, car, etc.? Mini Storage. From \$5 weekly. 425-1723; evenings, 467-0586.

Boxer puppies, purebred, unregistered, males. \$100 - \$150. Telephone 436-3174.

Swimming pool maintenance chemicals, 60 percent of retail. Pick-up: \$.10 per pound off. Minimum 25 pounds; own container. Zeo-Tec Ltd. 436-8379; 436-9844.

Alpha Elementary School—child-oriented program stressing individuality, parental involvement. Begins this fall. Telephone 437-0726.

Seventeen-foot boat—Reinell, 120 OMC stern drive; eighty hours; trailer, ski equipment. 435-5032.

Dressmaking and alterations. Elizabeth Hamilton. 428-6162.

Lost—knotted strand cultured pearls, vicinity of Clinical Sciences Building. Sentimental value. 434-2523, or Campus Security.

Typing—when you have correspondence, reports, etc., that need typing, telephone G.T. Typing, 484-1004 for a professional job at reasonable rates.

Books—old and out-of-print, bought and sold. Norwood Books, 11302 95 Street. 474-4446. Ken Jackson, proprietor.

Needed for research: males between the ages of fifty - seventy who are non-smokers with no history of lung disease. Approximately 1½ hours of your time required. For information telephone Dr. R.L. Jones, 432-6475.

Playschool—three- and four-year-olds. Garneau mothers' cooperative. Three mornings weekly. Qualified teacher. Vacancies for September. 439-2114; 432-7908.

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